DXpedition News

Ascension Island - ZD8 Des Watson GØDEZ will operate as **ZD8DEZ** until August, on all bands. Watch 1910, 3691, 7091, 10119, 14019, 14190, 21019, 21190, 28019, and 28491 kHz. He'll also be active on the new bands, and on the digital modes. QSL route not yet announced. (Thanks DXNS.)

Aruba - P4 Will Roberts AA4NC will operate as either **P4ØNC** or **P4ØAA** March 15-22, on 160-10 meters, including the new bands, CW and SSB. QSL with SASE to 8104 Lawdraker Road, Apex NC 27502.

Cayman Islands - ZF Blaine Malmedal WAØJTB and son Greg KBØJBX will operate as **ZF2SQ** and **ZF2SP** March 19-26. Watch 1835, 3520, 7020, 10113, and 14010 kHz on CW, and 3795, 7290, 14145, 14224, 18140, 21285, and 28472 kHz on SSB, especially 22-0800Z. QSL home calls.

Edited by Chod Harris VP2ML

The DX Bulletin

America's Premier Weekly Amateur Radio Publication

United Arab Emirates - A6 Don Greenbaum WB2DND will operate **A61AD** March 24-29, including some 160-meter activity. If a promised loan of satellite gear comes through, he'll put UAE on the amateur satellites for the first time. He'll also be in the WPX SSB test as work obligations permit, transmitting 5 kHz below US phone bands, listening up. QSL via his home address: 250 Standish St., Duxbury MA 02332.

Anguilla - VP2E Ray Sylvester NR1R will be active as **VP2E/NR1R** March 23-April 1, on CW and SSB, 160-10 meters. Watch 3505, 7005, 14025, 21025, and 28025 kHz on CW, and 1829, 3795, 14195, 21295, and 28485 kHz on SSB. He'll enter WPX SSB in the single-op, low-power category. QSL home call with SASE: 20 Gardner Rd, Reading MA 01867.

Shortly Noted

- **XB2I** is the call of a multi-multi operation from Mexico in the ARRL SSB test this weekend. The American and Mexican operators will be on CW before and after the test under the calls **4A2MX** and **6FØS**. QSL XB2I and 6FØS via AA7FM, and 4A2MX via XE2GV.
- **XI9Z** is a Mexican multi-single operation in the ARRL SSB test; QSL via KF7SH.
- **V31DX** will be a multi-op entry in the ARRL SSB test; QSL to KA6V.
- **VK9LM** is a Lord Howe Island operation by Rudi Mueller DJ5CQ and others, March 6-16, mainly CW 25 kHz up. Try 14195 and 21295 kHz on SSB. QSL to Rudi's home address: Alter Main 23, D-8601 Ebing, Germany. (Thanks DXNS.)
- **Southern Africa**: John Rouse KA3DBN returns to southern Africa March 13-April 4. He plans stops, and possible operation, in the Republic of South Africa ZS, a couple of the 'homelands' in RSA, under H5 and S8 callsigns (which count for ZS in the DXCC program), and several other countries in the region, including 3DA, 7P8, A2, Z2, and 7Q. He will be especially active from South Africa in the CQ WPX SSB test March 27-28. QSL via his home call.
- **VP2V/N7PIB** is scheduled to be active until March 11 from Tortola (NA-023). QSL home call. (DXNS.)
- **FT5YE** will be active for the next year from Petrel Island (AN-017). The French Antarctic Dumont d'Urville base is in CQ Zone 30, near the South Magnetic Pole; DXCC country is Antarctica. (LNDX)
- The Lambda Amateur Radio Club will operate on OSCAR-13 from a 'secret' location March 9-14. "The destination will not be disclosed in advance, but will be announced when the operating team comes up on the satellite from the DXpedition location." They say that this destination has never been active before on any satellite. Operators include Jim Kelly KK3K, Don Bledsoe WB6LYI, Nick Altenbernd KA1MQX, Eric Levinson N6ZSU, Mark Wilcox KC3XC, and Philip Jenkins WD4IJV. QSL via home calls. Anyone making contact with all the operators will receive an engraved certificate.
- **SSB Net** check-ins: **14227**: (11,21Z) KF6BL/T5 V51JM JY4US N9OQS/T5 S92YL; **21335**: (14Z) TN1AT; **21355**: (17Z) ZD9BV.
- **RTTY**: **5R8DG** likes 21089 kHz at 1400Z.
- **Islands On The Air**: In late March **XF1T** will be active from Isla del Tiburon (Shark Island) in the Gulf of California, NA-167. The Mexican group will also operate from Angel de la Guarda as **XF1A**: NA-163. All bands and modes, including the new bands. QSL to XE2GV. **GU6YB** will be active March 26-29 from Alderney Island (EU-114), including a multi-op entry in the WPX SSB. They'll also be on CW on the new bands. QSL to G3SWH, 21 Dickensons Grove, Congressbury, Bristol BS19 5HQ, England.

Propagation

Forecast and Historical Data

Day	Forecast	27 Days Before				55 Days Before			
March 1993		Date	Flux	A	K	Date	Flux	A	K
5	Above Normal	2/6	184	02/05	0	1/9	129	13/14	2
6	High Normal	2/7	176	18/18	4	1/10	132	24/28	2
7	Below Normal	2/8	188	29/34	3	1/11	132	15/18	3
8	High Normal	2/9	185	17/19	3	1/12	140	06/10	1
9	High Normal	2/10	180	11/14	4	1/13	141	08/09	2
10	High Normal	2/11	173	14/14	2	1/14	133	15/16	3
11	High Normal	2/12	149	11/09	1	1/15	126	12/12	1
12	High Normal	2/13	135	09/08	1	1/16	133	05/06	1
13	Above Normal	2/14	141	05/05	1	1/17	126	13/09	1
14	Above Normal	2/15	135	01/04	0	1/18	122	06/08	2
15	Above Normal	2/16	134	08/07	2	1/19	116	15/14	3
16	Below Normal	2/17	124	28/36	3	1/20	110	09/10	1
17	High Normal	2/18	126	12/11	2	1/21	107	04/06	0
18	High Normal	2/19	116	07/07	2	1/22	104	04/05	2
19	Low Normal	2/20	123	22/24	3	1/23	106	02/03	1
20	Low Normal	2/21	123	17/18	3	1/24	105	08/09	2
21	Low Normal	2/22	133	18/30	2	1/25	106	16/18	4

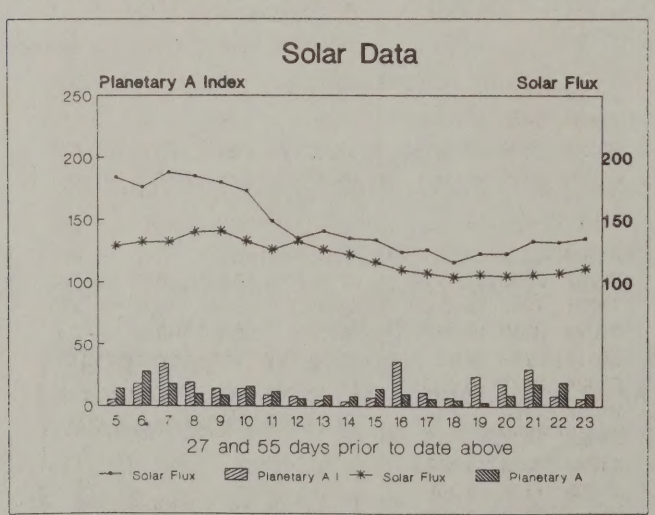
Propagation Watch

High frequency (HF) propagation has been a mixed bag recently. Some days, the bands have been excellent, with superb low-band conditions, and above-average openings on the higher bands. Other days have been plagued by geomagnetic storminess.

The maximum useable frequency (MUF) continues to be above 28 MHz, permitting 10-meter contacts at least in the mid- and low-latitude directions. There have even been some higher-latitude 10-meter openings (east coast to Europe, west coast to Japan). Amazingly, Sunspot Cycle 22 continues to provide excellent HF openings. Watch lower bands for shortening skip, the best indicator of an opening on a higher band in that direction.

Meanwhile flares and coronal holes have produced some geomagnetic storms, eliminating low-band propagation, and lowering signal-to-noise ratios on the higher bands.

Solar flux will drop to mid-March, but the approaching Spring equinox will boost MUFs. This may be the last gasp for 10- and 12-meter propagation this sunspot cycle, so make the most of the high-band openings during the next few weeks. Cycle 22 will run out of gas soon. Good hunting!



UHF Spring Sprints Changes

The ARRL has changed the date and time for the 902, 1296, and 2304 MHz Spring Sprints. They will all run simultaneously on Saturday, May 1. You may work any five consecutive hours between 6am and 1pm local time.

DXers Shut Down by Court Order

David K. and Sharon T. Brower, WA4NST and N4XLF respectively, of Vero Beach, Florida, recently lost a two-year legal battle over their 68-foot radio tower and antennas. In the Final Judgment for the plaintiffs (seven households) Judge Charles E. Smith of the 19th Judicial Circuit in and for Indian River County, Florida, has found the radio transmissions to be a noxious and offensive activity, the appearance of the tower and antennas an annoyance and nuisance to the neighborhood, and quoting the Final Judgment, "This large, tall (87-feet) tower and antenna sticks out like an eyesore to this subdivision and neighborhood." Smith also broadly ruled that the tower is a building that exceeds the two-story limitation of the subdivision. The deed restrictions are silent about antenna support structures.

Pending appeal, Smith has stayed his order to remove the radio tower and antenna, but has enjoined the Browers from further radio transmissions from their home! If the Browers are not successful with the appeal, this case will set a dangerous precedent for any exterior antenna and alleged interference to home electronic appliances. Like the Browers, the Ham will be ordered by the court to remove his tower and cease radio transmissions.

Bouvet Island?

Bren G4DYO, editor of the Radio Society of Great Britain's **Dx News Sheet**, has done some research on the strange Bouvet operation mentioned in Issue 676. He has found that the Norwegian telecom authorities have issued permission for Yuri Zaruba UA9OBA to use the callsign **3Y/RØL** from Bouvet. The Norwegian Department of Environment has also issued landing permission on Bouvet. However, the weather in the region in the proposed April/May period may preclude such landing. More information as it becomes available. Thanks, Bren.

The Bus - HA5BUS

The famous HA5BUS bus has been in Arizona recently, dominating the neighborhood of AA7FM. (It's a **big** bus!) The Hungarians are soon off on a tour of the US and Canada, prior to heading back to Europe. Radio clubs who wish to sponsor a get-together with the bus crew may arrange same through the Hungarian Consulate in Los Angeles; contact Mr. Hatesh there at 310-473-9344.

QSLs Received

▪ From managers: **ZK2XI** (JA3JA 9 WKS), **ZK2XX** (ON4QM 3 MOS), **FR5ZU/E** (VE2NW (ex-VE2DWH) 2 WKS), **J28BM** (K1SE 3 WKS), **VK9LD** (VK4CRR 3 MOS), **S79IDY** (JA1IDY 3 MOS), **4N4ANT** (KA9WON 2 WKS), **7Q7RM** (GØIAS 12 DYS), **V51JM** (NK2T 13 DYS), **EU5Ø** (DL1GWS 3 MOS), **JY8VJ** (DL1VJ 6 WKS), **OD5/SP1MHV** (SP1MHV 7 WKS), **A35DX, DF2UU/KH8, 3D2UU** (DF2UU 13 MOS), **KHØAM** (JE1CKA 15 MOS), **CEØY** (K6VNY 3 MOS), **YJØARW** (ZL1AMO 1 MO).

▪ Direct: **S51LU** (3 MOS), **3B8CF** (3 WKS), **TF3CW** (2 MOS), **FR5AI/G** (2 MOS), **BY4SZ** (7 MOS), **BZ4SCF** (5 MOS), **J28GG** (3 WKS), **Z21GZ** (2 MOS), **ES1WN** (2 WKS), **FO4OK** (1 MO), **UC2AAA** (9 MOS), **7P8SR** (2 MOS).

B • A • N • D • P • A • S • S

*Key to Bandpass: Callsign, frequency, UTC, day of the month, state. * = long path. P = packet.*
All "portable" calls listed with country of operation first, regardless of format used on the air.

RTTY

5R8DG	21090	1350	21	OH
9K2IC	21086	1510	20	OH
A45XC	14086	0321	19	ID
CN8NP	21088	1746	15	ID
FG4FI	21084	1950	22	CA
LX1JT	14088	1805	22	CA
S51GB	21091	2005	20	CA
S57AN	21091	1505	20	OH
UW1ZU	14086	2140	20	CA
V51GB	21093	1817	15	ID
ZP5FGS	14083	0110	20	CA

160 Meters

BV4CT	1828	1418	28	CA
UC2WAF	1831	0335	15	AL
V85KX	1824	1438	28	CA
ZL2JR	1833	0739	20	VA

80 Meters

4O4D	3503	0317	18	GA
	Serbian Bosnia			
6W6JX	3501	0320	17	AL
9K2ZZ	3509	0146	26	FL
9M2FC	3502	1415	25	CA
BV1FU	3504	1510	24	CA
BV2TA	3508	1433	28	CA
FK8GJ	3505	1410	25	CA
KC6OK	3504	1155	27	FL
OH5NZ *	3799	1432	20	CA
TF3EJ	3505	0850	15	WV
UJ8JA	3501	2339	14	WV
V31JZ	3507	1100	24	FL

75 Meters

4N5JA	3799	0330	22	CA
7X2DG	3799	0340	22	CA
9M8ZZ	3790	1508	28	CA
A45ZZ *	3799	1438	21	CA
D44BC	3800	0710	18	CA
PZ1EL	3793	0728	17	CA
XU5DX	3798	1420	24	CA

40 Meters

3B8CF	7006	0200	25	CA
3DAØBK	7007	0410	19	KS
4F2IR	7014	1435	15	CO
	Philippines			
4K2BY	7006	0202	19	VA
4K2KBZ	7017	0850	15	CA
5H3XX	7002	0057	18	MI
6W6JX	7009	0629	18	CA
7P8SR	7003	0355	17	CA
9K2MU	7008	0017	16	VA
9M2VZ	7010	1517	28	CA
9M8ST	7030	1535	15	ID
9V1YC	7008	1513	28	CA
BV4CT	7005	1509	28	CA
BV7FC	7004	1506	28	CA
CP6HD	7004	0454	23	FL
CP8AK	7016	1051	24	FL
EA8AS	7013	0518	26	FL
ES1WN	7028	0440	18	CO
ES1WN	7003	1442	28	CA
JT1BR	7011	1225	27	FL
JW9VDA	7004	0426	18	MN
KH8/ DL7UUO	7006	1105	25	FL
OD5/ SP7LSE	7006	0106	18	VA
PJ9JT	7002	0136	26	FL
PZ1DY	7015	0521	17	MI
SV1BKN	7003	0511	17	MI
T31AF	7010	0855	15	CA
TA2BD	7002	0135	26	FL
TR8GR	7006	0043	18	MI
UAØQFC	7012	0550	16	KS
UAØZC	7007	0619	28	CA
UC2CFT	7005	0226	27	FL
UI8BDK	7012	1238	17	AL
UL7CN	7009	1516	28	CA
XU2ZP	7004	1421	28	CA
XU5SE	7005	1318	17	AZ
XX9TFN	7005	1505	22	CA
YN/ SMØOIG	7008	2352	18	GA
Z21HS	7005	0445	16	KS
Z21HS	7005	1531	28	CA
ZA1J	7005	0138	26	FL

30 Meters

3B8CF	10103	0317	24	MN
9A2AJ	10101	2337	25	FL
EA8QJ	10103	2204	27	FL
OD5/ SP1MHV	10101	0043	17	TX
OD5/ SP7LSE	10106	2233	17	WI
OM3IAG	10106	2350	16	TX
PJ2/ PAØVDV	10101	1100	25	FL
SV5BYR	10107	2244	17	VA
TA2BD	10101	2118	27	FL
UL7ACI	10111	2303	16	TX
VK6AKG	10105	0840	22	WV
VK6HG *	10103	2323	17	TX
	Zone 29			
VP2EE	10124	2300	15	NY
VR6BB	10106	0720	19	CA
YN1CC	10100	0049	26	FL
ZA1AB	10104	1939	16	VA

20 Meter CW

4K3RRC	14011	0045	28	AZ
4N5M	14003	2315	21	MI
4O4D	14021	1503	28	CA
8P6AA	14025	0241	27	FL
9K2MU	14007	0405	19	UT
9K2ZZ	14005	1751	28	NV
A22MN	14011	0109	20	CO
HKØER	14025	0113	18	GA
JWØF	14025	2134	15	GA
OX3MZ	14022	1557	28	CA
PZ1DY	14031	2335	14	GA
RL7YA	14016	0304	19	UT
UAØKAH	14021	1300	19	MI
UAØQBO	14021	0212	28	AZ
UAØYO	14007	0236	27	FL
	Zone 23			
UI8GA	14004	0235	27	FL
UI9AXK	14023	1214	27	FL
UJ8JA	14004	0340	19	UT
UJ8JMM	14022	0308	17	UT
UL7EZ	14029	2330	18	GA
UM8NAB	14017	1214	27	FL
UZ2FWA	14023	1802	28	CA
VQ9AC	14023	1217	15	MA
XU6TQ	14022	1540	22	MI

20 Meter SSB

3XØHLU	14205	2340	17	WI
4K2KBZ	14194	2158	19	WA
D44BC	14207	0611	28	CA
JT1BG	14195	0105	16	MD
TN1AT	14256	1707	22	WA
UI8ZAC	14170	0506	28	CA
UJ8JMM	14199	0245	16	KS
UL8PYL	14204	0507	28	CA
VP8GAV	14222	0118	15	CA
	Antarctica			
VQ9YA	14160	2302	18	WI
VR6JJ	14193	0541	28	CA
VU2JYK	14180	0310	16	CO

17 Meter CW

9A2TW	18074	1701	21	WV
JW9VDA	18071	1630	21	VA
PYØF/ PY3ZYM	18071	0034	23	MA
UAØZC	18070	0010	27	FL
YL2PQ	18081	1520	15	ID
YS1DRF	18074	1351	20	WV

17 Meter SSB

7X2DG	18132	1428	19	WA

15 Meter CW

4L3Q	21012	1330	27	GA
4N5ET	21004	1601	15	ID
4N5FK	21004	1543	19	MN
7P8SR	21021	1902	15	VA
7Q7CM	21024	1956	15	CO
8R1J	21021	2128	18	CA
9A2AA	21017	1530	14	FL
9K2ZZ	21008	1315	27	GA
A22MN	21003	2250	21	WY
A71CW	21021	1248	18	GA
C9RJJ	21028	2230	16	MA
HL1KHE	21015	0043	26	FL
KHØM	21024	2221	15	CO
PZ1DY	21024	1130	17	FL
PZ1DY	21022	2337	15	GA
SU1HV	21023	1226	14	GA
TT8AKX	21100	1556	18	VA
UAØYO	21014	0212	19	UT
	Zone 23			
UC2LDU	21018	1545	15	ID
US7I	21015	1435	27	GA
VQ9YA	21036	1939	14	GA
VR6BB	21021	1818	18	ID
XQØYAF	21002	0110	18	CA
YB3OSE	21030	0054	17	UT
YI1BGD	21016	1507	11	WV
YS1DRF	21026	1251	18	GA
Z21GC	21015	2020	27	GA

15 Meter SSB

3XØHNU/P	21244	1910	19	WI
5Z4FM	21335	1930	19	CA
5Z4TT	21289	2128	14	CO
7Q7CM	21295	2218	14	MD
CEØYFL	21290	0148	1	CA
D44BC	21251	1816	24	NY
DPØGVN	21267	0210	21	AZ
EA9KQ	21304	1728	28	CA
H44MS	21260	2336	24	AZ
JW9VDA	21288	1926	18	ID
P29MI	21267	0206	21	AZ
TJ1JR	21275	1635	15	ID
ZD7DP	21267	2200	16	PA

12 Meter CW

3B8CF	24900	1511	24	MN
7P8SR	24899	1727	28	CA
A22MN	24891	1411	14	WV
ESØNW	24894	1524	27	FL
UC2AAA	24899	1423	21	WV
UZ2FWA	24909	1527	27	FL
VQ9AC	24903	1603	14	WV
YO2BP	24905	1309	18	AL
ZA1AB	24890	1546	16	WV

10 Meter CW

5H3XX	28003	1612	27	FL
7P8SR	28041	1410	28	GA
XQØYAF	28012	1245	13	GA

10 Meter SSB

7W2WEK	28500	1545	15	MD
C9RJJ	28480	1639	15	CO
FH5CB	28655	1545	16	NH
FR5GG	28469	1405	17	MD
JW9VDA	28495	2212	18	CO
SU1AL	28515	1522	16	MD
SU1AL/2	28565	1355	13	MD
V85BJ	28466	0055	16	WA
VP8CMX	28461	2242	16	MD
VR6JJ	28495	1940	18	CA
VR6RC	28411	1934	16	MD
YS1XS	28485	1850	17	CA

S	M	T	W	T	F	S
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20

Issue 678 - March 5, 1993

Current and Future DXpeditions

(Changes and hot info in **boldface**.)

DXCC Country	Prefix	Callsign	Dates	Issue
Antarctica		**FT5YE, CE9OH**	Now	**I678**
Anguilla		**VP2E/NR1R**	**Mar. 23-31**	**I678**
Aruba	**P4**	**P4ØMR**	**Mar. 1-13**	**I676**
		P4ØNC/AA	**Mar. 15-22**	**I678**
Ascension Island	ZD8VJ		Now-1994	I673
	ZD8DEZ		**to August**	**I678**
Bahamas	**C6**	**N3NCW/C6A**	**Mar. 15-30**	**I677**
Bangladesh	S2	S21ZG	7004 1200Z	I674
		FAIRS	**Mar. 3-16**	**I677**
Belau	**KC6**	**KC6VW**	**Mar. 5-10**	**I675**
	KC6s	VW SM	Mar. 28-31	I675
Belize	**V3**	**V31DX**	**ARRL SSB test**	**I678**
Bolivia	**CP**	**CP6IIE**	**Mar. 1-19**	**I676**
British Virgins	VP2V/W2GUP		to March 9	I670
	VP2V/N7PIB		**to Mar. 11**	**I678**
Cambodia	XU	XU7VK, others now active		I670
Cayman Islands	**ZF**	**ZF2TX**	**Mar. 13-21**	**I677**
		ZF2SP/SQ	**Mar. 19-26**	**I678**
Chad	**TT**	**TT8OBO**	**Mar. 15-Apr.**	**I673**
		TT8AKX	**to Mar. 31**	**I674**
Chatham Island	**ZL7**	**ZL7AA**	**Mar. 1-10**	**I674/5**
Crozet	FT	FT4WD	Now	I670
Central Kiribati	**T31AF**	**15M CW 21, 0030Z**		**I674**
Dominica	**J3**	**J37EK?**	**Mar. 1-11**	**I676**
Eastern Malaysia	**9M6**	**ARRL SSB Test**		**I676**
Fernando de Noronha		**PYØFM**	**Mar. 4-Apr. 1**	**I677**
Galapagos	**HC8**	**HC8A**	**Mar. 2-29**	**I674**
Ghana	**9G**	**9G5AA**	**late March**	**I674**
Jamaica	**6Y5/**	**K6JAH**	**Feb. 26-Mar. 11**	**I676**
Kingman Reef	**KH5**	**N9NS/**	**Mar. 5-14**	**I676**
Lord Howe Is.	**VK9LS**		**Mar. 10-16**	**I677**
	VK9L<		**Mar. 6-16**	**I678**
Madagascar	**5R**	**5R8DG**	**28544 14-1500Z**	**I672**
Marianas	**AHØAL**		**Mar. 10-13**	**I675**
Micronesia	V63s	BM MK	Mar. 31-Apr. 4	I675
Nauru	C2	C21BR	to mid-Apr.	I669
Navassa	KP1	W5IJU	Mar. 26-Apr. 3	I668
Netherland Antilles		**PJ2/PAØVDV**	**to Mar. 18**	**I675**
Palmyra Island	**KH5**	**NØAFW/**	**Mar. 5-14**	**I676**
Pitcairn Island	**VR6**	**JJ,BB**	**to March**	**I670,3**
Qatar	**A7**	**A71CW**	**now active**	**I675**
Rwanda	9X	9X5AB	now active	I662
Saba	PJ/	N3NCW	April	I677
St. Martin	FS/	N3NCW	April	I677
San Andrés	**HKØ/**	**AA5AU, KB5GL**	**to Mar. 7**	**I667**
São Tomé	S9	S92ST	now active	I674
Seychelles	S7	S79MD	now active	I670
Singapore	9V	9V1YU	15M 15-1700Z	I661
Somalia	**T5/**	**KH6HBZ**	**to March**	**I676**
Spratly Islands	**1S**	**9MØS**	**Mar. 11-17**	**I676**
Taiwan	BV/	N4VA	to July	I676
Turks & Caicos	**VP5**	**VP5H**	**Mar. 4-11**	**I674**
United Arab Emirates		**A61AD**	**Mar. 24-29**	**I678**
US Virgin Islands		**VE4GV/KP2**	**Feb. 21-Mar. 7**	**I676**
Western Sahara	**SØ**	**SØRASD**	**Feb. 24-Mar. 6**	**I673**

Resident Amateurs on Regularly

DXCC Country	Callsign	Freq.	UTC
Cambodia	XU2ZP	7004	1420Z Sun.
Djibouti	J28BS	14015	1900Z
Estonia	ES1WN	7014±	0500Z
Gough Island	ZD9CQ	14298	1700Z
Guinea	3XØHNU	7005	Sat/Sun
Japan	JA1NUT	7008	1145Z
Kazakhstan	UL7ACI	10112	2300Z
Kazakhstan	UL7EZ	14033±	2300Z
Madagascar	5R8DG	28544	1400Z
Malawi	7Q7RM	21020	1830Z
Malawi	7Q7XX	7005	0400Z
Malaysia	9M2FC	3503	1415Z
Mauritius Island	3B8CF	7004	0300Z
Mongolia	JT1BV	18145	0100Z
Mongolia	JT1BV	10106	1300Z

The DX Bulletin

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Mozambique	C9RJJ	28480	1630Z
Qatar	A71CW	21021	1300Z
San Felix	XQØX	24950	2100Z
Suriname	PZ1DY	21024	2330Z
Taiwan	BV4CT	7005	1500Z
Tanzania	5H3XX	7004±	0100Z
Zimbabwe	Z21HS	7005	0445Z

Contributors

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